

## SECTION 8

### FINAL BRIDGE PLANS

Refer to Section 17 “Structures” of the NJDOT Procedures Manual for provisions governing final plan submissions of Bridges and Structures.

#### 1.8.1 GENERAL

1. Contract drawings shall be on 594 millimeter by 841 millimeter sheets.
2. Preferably, plans, sections, and elevations should be drawn to a scale not less than 1:50 and details to a scale not less than 1:30 except on the General Plan and Elevation Sheet.
3. Two (2) sets of the Design and Quantity Calculations shall be submitted as part of this submission.

#### 1.8.2 SUBMISSION CRITERIA

The above referenced Section of the NJDOT Procedures Manual details the requirements that are to be provided on each structural plan sheet.

#### 1.8.3 PROPRIETARY WALL SUBMISSIONS

1. When the allowance of alternate type proprietary walls is permitted, **CONTROL PLANS** are required in the final contract documents. Refer to Subsection 1.7.2 for Control Plan requirements.
  - a. The Contractor shall be responsible for providing the design calculations and construction plans for the proprietary wall systems. The calculations shall include internal stability verification of the wall system.
  - b. In accordance with Subsection 105.04 of the Standard Specifications, drawings and design calculations shall be submitted for review. Once the submission is found to be acceptable, the Contractor shall submit final signed and sealed design calculations, one (1) set of mylars and the required number of signed and sealed prints as per Subsection 105.04.
  - c. The Designer will sign and seal these mylars noting that the walls are checked for external stability and for conformance with the design concept of the project. Also, he will modify the Index of Drawings on the Contract set of plans.
  - d. The Designer will submit the final design calculations (proprietary wall and external stability) and the number of prints of approved wall plans to the

Project Manager. Also, an additional set shall be furnished if Railroad structures are involved.

- e. A note on the Control Plan shall be provided specifying which type of proprietary wall is to be constructed at each wall location.
2. When project site conditions limit the wall selection (refer to Subsection 1.5.6 of this Manual) and complete proprietary wall designs are provided in the Contract set of plans, the Designer will submit design calculations regarding the external stability of the wall system.
- a. Complete proprietary wall designs shall be included in the final contract documents, the Contractor shall submit detailed shop and working drawings including the design calculations.
  - b. Complete information as to the proposed method of fabrication and erection of precast units and related components shall be provided. Shop drawings shall be prepared and submitted in accordance with the requirements specified under Subsection 105.04 of the Standard Specifications and as modified herein.
3. As per Subsection 1.7.2 of this Manual, when only one type wall manufacturer can be used, a waiver must be obtained from FHWA.
4. The Department reserves the right to reject any alternate wall system or details which do not conform to the control plans, pre-approved details, NJDOT Design Manuals or AASHTO Specifications.